

0322



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/004,860

DATE: 05/03/2002
TIME: 15:28:43

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3 <110> APPLICANT: Young et al.
6 <120> TITLE OF INVENTION: 207 Human Secreted Proteins
9 <130> FILE REFERENCE: PZ007P1
12 <140> CURRENT APPLICATION NUMBER: 10/004,860
13 <141> CURRENT FILING DATE: 2001-12-07
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16 <151> PRIOR FILING DATE: 1998-12-04
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163 <170> SOFTWARE: PatentIn Ver. 2.0
168 <210> SEQ ID NO: 1
169 <211> LENGTH: 733
170 <212> TYPE: DNA

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 175 aattcgaggg tgcaccgtca gtcttcctct tccccccaaa aeccaaggac accctcatga 120
 176 tctcccgac tcctgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg 180
 178 tcaagttcaa ctggtagcgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
 179 aggagcagta caacacgacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
 180 ggctgaatgg caaggaggtac aagtgcagg tctccaacaa agccctccca acccccatcg 360
 181 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
 182 catcccgaa tgagctgacc aagaaccagg tcagcctgac ctgcctggc aaaggcttct 480
 183 atccaagcga catcgccgtg gagtgggaga gcaatggca gccggagaac aactacaaga 540
 184 ccacgcctcc cgtgtggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg 600
 185 acaagagcag gtggcagcag gggAACgtct tctcatgctc cgtgatgcat gaggctctgc 660
 186 acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
 187 gactctagag gat 733
 190 <210> SEQ ID NO: 2
 191 <211> LENGTH: 5
 192 <212> TYPE: PRT
 193 <213> ORGANISM: Homo sapiens
 195 <220> FEATURE:
 196 <221> NAME/KEY: Site
 197 <222> LOCATION: (3)
 198 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
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 W--> 201 Trp Ser Xaa Trp Ser
 202 1 5
 204 <210> SEQ ID NO: 3
 205 <211> LENGTH: 86
 206 <212> TYPE: DNA
 207 <213> ORGANISM: Homo sapiens
 209 <400> SEQUENCE: 3
 210 gcgcctcgag atttccccga aatcttagatt tcccccgaat gatttccccg aaatgatttc 60
 211 cccgaaatat ctgcacatctc aattag 86
 214 <210> SEQ ID NO: 4
 215 <211> LENGTH: 27
 216 <212> TYPE: DNA
 217 <213> ORGANISM: Homo sapiens
 219 <400> SEQUENCE: 4
 220 gcggcaagct ttttgcaaaag cctaggc 27
 223 <210> SEQ ID NO: 5
 224 <211> LENGTH: 271
 225 <212> TYPE: DNA
 226 <213> ORGANISM: Homo sapiens
 228 <400> SEQUENCE: 5
 229 ctcgagatt ccccgaaatc tagatttccc cgaaatgatt tcccccgaat gatttccccg 60
 230 aaatatctgc catctcaatt agtcagcaac catagtccc cccctaactc cgcccatccc 120
 231 gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
 232 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
 233 ttttgagggc ctaggctttt gcaaaaagct t 271

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246 <211> LENGTH: 31		
247 <212> TYPE: DNA		
248 <213> ORGANISM: Homo sapiens		
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255 <211> LENGTH: 12		
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257 <213> ORGANISM: Homo sapiens		
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264 <211> LENGTH: 73		
265 <212> TYPE: DNA		
266 <213> ORGANISM: Homo sapiens		
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269 gcggcctcgaa ggggactttc ccggggactt tccggggact ttccggact ttccatcctg	60	
270 ccatctcaat tag	73	
273 <210> SEQ ID NO: 10		
274 <211> LENGTH: 256		
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276 <213> ORGANISM: Homo sapiens		
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280 caattagtca gcaaccatag tccccccctt aactccggcc atcccgcccc taactccggcc	120	
281 cagttccggcc catttccgc cccatggctg actaattttt tttatattatg cagaggccga	180	
282 ggccgcctcg gcctctgagc tattccagaa gtagttagga ggctttttg gaggcctagg	240	
283 ctttgcaaa aagtt	256	
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292 gacaggctat ccgagaatct gagagctggg cccggcaatt cctccagytat cccttggac	60	
293 ctaagtccatg tcacacattt cccaaagttt ctctttgtca taaccctgggt ctggctgggt	120	
294 ttgrggcattt gagaatgggt cagggactcc agggcaagtc caacagagac cccaaaccca	180	
295 ccacacacca gcagccacaa cctcaccacc aacaaagagg acttttggg gcccacaagt	240	
296 aagaggtcat ttcttggatg gactcagacc tttaaacagg agagttgagc acttccagks	300	
297 agtttttaag caaggcatgg ggaacaggaa atagaacctt tcaaagaggt tgcccgagaga	360	
298 aaagctgggc ctcttgcatt cggcttcctt ggagcagcctt ctcttggcag aaagccatca	420	
299 ggtgctcaat catcttctcc tggccaaggc tctgaccatg cttagtactg gaatagaggt	480	
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303	tctagaatct	ttgagtgcctt	ggcttccaa	ggatactgcg	gagactctgg	ccaagctgat	720
304	gamttctga	artgtcactg	gcaccatatg	caacaagaac	caccattcac	tgagtagcta	780
305	atgggttgg	ggcctggac	attccatctg	aggtccttc	tgaacatgtc	actccacagc	840
306	agaggaccgg	ttgcagctt	cccagaacca	ctcctccagg	agagctggat	gtttgcgtg	900
307	caacacctt	agcactgact	gctattgtt	aaaaaaagcc	tttgctgcat	tcggaggact	960
308	gccccgtgcc	ctgaggtgac	ttcctaacta	tgtggttca	ttagcgaatt	tatttttgt	1020
309	gctgggtgga	catttgtt	ttgttaggtt	gctgttaag	ctcaagttt	ctgtgctctc	1080
310	tgcagctaca	aaacatctt	gcataattaa	gaktggctt	tataaatagc	tttattctga	1140
311	tattaatcag	attccaaact	ttactgagaa	ttaaggactg	gggtacttta	aagaaatgca	1200
312	aatagcaatt	gaagaaccac	tgctgcaggt	ggtagccctg	gctagactga	attacactag	1260
313	aaatcagcca	gaaggaagcg	tcctgggat	cccagatcac	tctttttttt	ttttttttta	1320
314	aaaggggcag	ccccttgcgt	gctcatctct	ctgaataaca	gttacgtctt	cataatcgata	1380
315	ccagatgcct	tcttcatcat	gccactgaag	ccactcacc	ccttcaagaa	catgccaacc	1440
316	tctgtcagat	tcacttaccc	acaaaacaagg	aggcacgtt	ggcacaaagt	gttgcctcc	1500
317	aggtccaagt	ggactctaca	gagtgcgtt	cctcaacaca	ctggatttca	gttggactgg	1560
318	accaagagca	ggcaaagaca	cgggaactga	aaaactccac	agggtttgga	gaatagaaat	1620
319	aaaaagccac	gtcatataac	tcaagaataa	atgggtttt	ggaaatttta	aaattatcat	1680
320	cgaaggttgt	aaaacttattt	caggcccaa	tgaaaggaaa	tcgccagtt	gggatgaaat	1740
321	cacagagcct	gtgtttatg	atatggttgg	atgtccactg	atgaaatttt	aaaggagttt	1800
322	cattttaaa	agtgcgcatg	attctacata	tgagaattt	ttaggccaag	aaactgttct	1860
323	tggctcagag	gtgttggaa	ttaaagcaga	gagaagccat	tcgtgatgt	tagaaccaag	1920
324	gatggtcatg	tacacaaaga	ccatcgagac	ggcattctt	gtttacaaaa	cacttaccaa	1980
325	gaaagcactt	tgtagggaa	ctttagtaag	ttcttctcat	ttcattatgt	ttcttccaag	2040
326	gaaacaggag	agactgaatt	aataatttc	tcttcctct	taagcactt	taaaataata	2100
327	aagtacatct	tgaaatttgg	gggggcattt	ctgattttaa	aaaagaaaaa	ggctgcttga	2160
328	tgtatgttat	gcagagacac	tctgcctct	gtggctgcag	agcaatacc	aagccttatt	2220
329	tggaaggctc	aacatttgg	attgcacttt	aattgattaa	tcctcaattc	atgtggcctt	2280
330	acgggatgg	gggtctggaa	cccaattca	ttcttattct	ccaaagaatt	atctagaagc	2340
331	acatcaaata	ccagcccccc	acctgcacaa	tgggggtgga	aaactttgt	atccctaagc	2400
332	atattatttt	atagtgtctg	ccatgccatg	tggaaatact	ttatttttaa	cctcaggatt	2460
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342	<220>	FEATURE:					
343	<221>	NAME/KEY: SITE					
344	<222>	LOCATION: (839)					
345	<223>	OTHER INFORMATION: n equals a,t,g, or c					
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349	actgaagatg	agagaacatg	atatgtgtaa	agtgccttc	acaataccca	gaacatagca	120
350	aacatgtaat	gaatgttagt	atagtaattt	tttttatttc	ttttgattca	gttgggacta	180
351	tgttcagctg	taacagaata	cccaaataaa	ctgtttttaa	caaattaaag	tttwgttgc	240
352	aagttttgtt	acgaatttcag	acaatccagg	gcttttatag	atgcaccagg	atcagcaggt	300
353	acaaaggcat	ctttcctgat	ttctgcctgt	ctcaatgcatt	gggttgcatt	ccagartcca	360

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Naa Pos. 3
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Seq#:16; N Pos. 25,478,661
Seq#:17; N Pos. 507
Seq#:18; N Pos. 635
Seq#:19; N Pos. 930
Seq#:21; N Pos. 1470
Seq#:23; N Pos. 301
Seq#:24; N Pos. 834
Seq#:26; N Pos. 1022
Seq#:27; N Pos. 1892,1930,1934
Seq#:28; N Pos. 17
Seq#:29; N Pos. 110,3690,3716
Seq#:30; N Pos. 1628
Seq#:31; N Pos. 1385,1395
Seq#:32; N Pos. 24,666,682,3181,3184
Seq#:33; N Pos. 957,964
Seq#:34; N Pos. 1767,1768
Seq#:35; N Pos. 6,8,870,877
Seq#:37; N Pos. 787
Seq#:39; N Pos. 794,806,810
Seq#:40; N Pos. 69
Seq#:42; N Pos. 196,226,302,596,952
Seq#:43; N Pos. 1801
Seq#:45; N Pos. 976
Seq#:48; N Pos. 593,2049
Seq#:49; N Pos. 35,570
Seq#:50; N Pos. 1486
Seq#:53; N Pos. 17,1514,1551,1556
Seq#:55; N Pos. 751,879,888,897,899,901
Seq#:56; N Pos. 328,336,341,788
Seq#:57; N Pos. 250,1051,1052
Seq#:58; N Pos. 3,6,32,751,770,784
Seq#:59; N Pos. 345,1024,1098,1186
Seq#:60; N Pos. 410,476
Seq#:61; N Pos. 24,39,548,560,562,584
Seq#:62; N Pos. 158,159,202
Seq#:63; N Pos. 2,4,12,738,776
Seq#:64; N Pos. 565,566
Seq#:65; N Pos. 1,13,15
Seq#:66; N Pos. 262,674
Seq#:67; N Pos. 668,745,1015,1088,1110,1113
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Seq#:82; N Pos. 1379
Seq#:86; N Pos. 1020,1024,1032
Seq#:87; N Pos. 805
Seq#:90; N Pos. 12,123,1522,1527
Seq#:92; N Pos. 62,126
Seq#:96; N Pos. 416,471,490,732,835
Seq#:97; N Pos. 332
Seq#:99; N Pos. 24,39,255
Seq#:104; N Pos. 544,774
Seq#:106; N Pos. 724
Seq#:107; N Pos. 1,6
Seq#:109; N Pos. 19,21,47,607,610
Seq#:110; N Pos. 67,2620
Seq#:111; N Pos. 1579,2226
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Seq#:116; N Pos. 51,476,1136
Seq#:119; N Pos. 147,376,395,1101
Seq#:121; N Pos. 2605
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Seq#:125; N Pos. 1286
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Seq#:127; N Pos. 495
Seq#:128; N Pos. 273,294
Seq#:129; N Pos. 1152
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Seq#:138; N Pos. 58,118,237,661
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Seq#:163; N Pos. 720,730,736,741
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Seq#:167; N Pos. 522,752
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Seq#:171; N Pos. 1961,1999
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Seq#:190; N Pos. 144,145
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Seq#:199; N Pos. 1310,1736,1737
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Seq#:205; N Pos. 264,340
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Seq#:214; N Pos. 450,451,454,1485,1492
Seq#:215; N Pos. 7,9,1241,1247
Seq#:216; N Pos. 1281,1704
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Seq#:231; N Pos. 1032,1034
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Seq#:234; N Pos. 775,2080,2083
Seq#:235; N Pos. 2058,2080,2115,2132
Seq#:236; N Pos. 528,552,1133
Seq#:240; N Pos. 651,1064
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Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:244; N Pos. 2459,2473,2475,2478
Seq#:245; N Pos. 133,867,1338
Seq#:246; N Pos. 651
Seq#:247; N Pos. 20,35,36,37
Seq#:248; N Pos. 776,907,1288
Seq#:249; Xaa Pos. 31
Seq#:250; Xaa Pos. 36,78,116
Seq#:251; Xaa Pos. 103
Seq#:252; Xaa Pos. 7,13,22
Seq#:253; Xaa Pos. 32,37
Seq#:254; Xaa Pos. 4,12,128
Seq#:255; Xaa Pos. 8,67
Seq#:256; Xaa Pos. 69
Seq#:257; Xaa Pos. 36,37,44
Seq#:258; Xaa Pos. 51
Seq#:259; Xaa Pos. 43
Seq#:260; Xaa Pos. 61
Seq#:261; Xaa Pos. 36
Seq#:262; Xaa Pos. 38
Seq#:263; Xaa Pos. 5,211
Seq#:264; Xaa Pos. 548
Seq#:266; Xaa Pos. 8,40
Seq#:267; Xaa Pos. 99
Seq#:268; Xaa Pos. 131
Seq#:269; Xaa Pos. 14,19,21
Seq#:270; Xaa Pos. 109,118,122,127
Seq#:271; Xaa Pos. 219
Seq#:272; Xaa Pos. 41,48,50
Seq#:273; Xaa Pos. 7,20,122
Seq#:274; Xaa Pos. 53,88
Seq#:275; Xaa Pos. 26
Seq#:276; Xaa Pos. 29
Seq#:277; Xaa Pos. 14,44
Seq#:278; Xaa Pos. 307,363
Seq#:279; Xaa Pos. 128
Seq#:280; Xaa Pos. 54
Seq#:282; Xaa Pos. 26
Seq#:285; Xaa Pos. 6,38,49
Seq#:286; Xaa Pos. 52
Seq#:287; Xaa Pos. 32
Seq#:288; Xaa Pos. 52,57
Seq#:289; Xaa Pos. 22
Seq#:290; Xaa Pos. 51
Seq#:292; Xaa Pos. 44,66
Seq#:293; Xaa Pos. 75,187,229,232,235,236,237,257
Seq#:294; Xaa Pos. 78,80,81,82,103
Seq#:295; Xaa Pos. 33
Seq#:296; Xaa Pos. 10,43
Seq#:297; Xaa Pos. 21

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Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#: 298; Xaa Pos. 70
Seq#: 299; Xaa Pos. 75
Seq#: 300; Xaa Pos. 33
Seq#: 301; Xaa Pos. 17
Seq#: 302; Xaa Pos. 17
Seq#: 303; Xaa Pos. 9
Seq#: 304; Xaa Pos. 12
Seq#: 305; Xaa Pos. 35
Seq#: 306; Xaa Pos. 15
Seq#: 307; Xaa Pos. 44
Seq#: 309; Xaa Pos. 34
Seq#: 310; Xaa Pos. 137
Seq#: 311; Xaa Pos. 14, 37, 58
Seq#: 312; Xaa Pos. 35
Seq#: 313; Xaa Pos. 90
Seq#: 314; Xaa Pos. 95
Seq#: 315; Xaa Pos. 44
Seq#: 316; Xaa Pos. 31
Seq#: 317; Xaa Pos. 69, 113
Seq#: 319; Xaa Pos. 35
Seq#: 320; Xaa Pos. 35
Seq#: 321; Xaa Pos. 82
Seq#: 322; Xaa Pos. 47, 70, 72
Seq#: 323; Xaa Pos. 10, 34
Seq#: 324; Xaa Pos. 111, 112, 115
Seq#: 325; Xaa Pos. 98, 99, 100
Seq#: 326; Xaa Pos. 36, 65
Seq#: 328; Xaa Pos. 36
Seq#: 329; Xaa Pos. 68
Seq#: 330; Xaa Pos. 105
Seq#: 332; Xaa Pos. 14, 39
Seq#: 333; Xaa Pos. 58, 72
Seq#: 334; Xaa Pos. 62
Seq#: 335; Xaa Pos. 286
Seq#: 336; Xaa Pos. 55
Seq#: 338; Xaa Pos. 120
Seq#: 339; Xaa Pos. 33
Seq#: 341; Xaa Pos. 18
Seq#: 342; Xaa Pos. 87
Seq#: 343; Xaa Pos. 538
Seq#: 344; Xaa Pos. 202
Seq#: 347; Xaa Pos. 48
Seq#: 348; Xaa Pos. 288, 334
Seq#: 349; Xaa Pos. 4, 193, 200
Seq#: 350; Xaa Pos. 24
Seq#: 351; Xaa Pos. 85, 131, 143
Seq#: 352; Xaa Pos. 95
Seq#: 353; Xaa Pos. 38
Seq#: 354; Xaa Pos. 39

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/03/2002
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Input Set : N:\CrF3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#: 355; Xaa Pos. 35, 71
Seq#: 357; Xaa Pos. 50, 53, 59, 60, 61, 64, 65, 90
Seq#: 358; Xaa Pos. 41
Seq#: 359; Xaa Pos. 56
Seq#: 360; Xaa Pos. 4, 222
Seq#: 361; Xaa Pos. 64
Seq#: 362; Xaa Pos. 111, 124, 125, 135, 144, 154
Seq#: 363; Xaa Pos. 17
Seq#: 364; Xaa Pos. 10
Seq#: 365; Xaa Pos. 14
Seq#: 366; Xaa Pos. 5, 6, 7, 10, 18
Seq#: 367; Xaa Pos. 62
Seq#: 368; Xaa Pos. 33
Seq#: 369; Xaa Pos. 79
Seq#: 370; Xaa Pos. 35
Seq#: 371; Xaa Pos. 22
Seq#: 372; Xaa Pos. 82
Seq#: 373; Xaa Pos. 7, 42, 43
Seq#: 374; Xaa Pos. 4, 7, 20, 25, 28, 31
Seq#: 375; Xaa Pos. 32, 57
Seq#: 376; Xaa Pos. 14
Seq#: 378; Xaa Pos. 45
Seq#: 379; Xaa Pos. 15
Seq#: 380; Xaa Pos. 34
Seq#: 381; Xaa Pos. 14, 62
Seq#: 382; Xaa Pos. 207
Seq#: 383; Xaa Pos. 20, 23, 31
Seq#: 384; Xaa Pos. 43
Seq#: 385; Xaa Pos. 255
Seq#: 386; Xaa Pos. 2, 20
Seq#: 387; Xaa Pos. 6, 64
Seq#: 388; Xaa Pos. 40
Seq#: 389; Xaa Pos. 35
Seq#: 390; Xaa Pos. 11
Seq#: 391; Xaa Pos. 64
Seq#: 392; Xaa Pos. 19
Seq#: 394; Xaa Pos. 17
Seq#: 395; Xaa Pos. 84
Seq#: 396; Xaa Pos. 19, 21
Seq#: 397; Xaa Pos. 29
Seq#: 398; Xaa Pos. 34
Seq#: 399; Xaa Pos. 47
Seq#: 400; Xaa Pos. 21, 25
Seq#: 401; Xaa Pos. 68
Seq#: 403; Xaa Pos. 15
Seq#: 405; Xaa Pos. 68, 72, 83, 103, 110, 121, 123, 126, 134, 154
Seq#: 408; Xaa Pos. 447
Seq#: 410; Xaa Pos. 24
Seq#: 411; Xaa Pos. 35

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Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#: 413; Xaa Pos. 25
Seq#: 414; Xaa Pos. 79
Seq#: 415; Xaa Pos. 20, 28
Seq#: 416; Xaa Pos. 100
Seq#: 417; Xaa Pos. 144, 263
Seq#: 418; Xaa Pos. 33
Seq#: 419; Xaa Pos. 53, 80
Seq#: 420; Xaa Pos. 82, 83, 95
Seq#: 423; Xaa Pos. 29, 31
Seq#: 424; Xaa Pos. 179
Seq#: 429; Xaa Pos. 61, 105, 117, 219
Seq#: 430; Xaa Pos. 51
Seq#: 431; Xaa Pos. 27, 50
Seq#: 432; Xaa Pos. 33, 39, 55, 70
Seq#: 433; Xaa Pos. 40
Seq#: 435; Xaa Pos. 38
Seq#: 436; Xaa Pos. 35
Seq#: 437; Xaa Pos. 32
Seq#: 438; Xaa Pos. 127
Seq#: 439; Xaa Pos. 10, 69
Seq#: 440; Xaa Pos. 92
Seq#: 441; Xaa Pos. 264, 296, 380
Seq#: 442; Xaa Pos. 17, 21, 23, 24
Seq#: 443; Xaa Pos. 33, 47
Seq#: 445; Xaa Pos. 144
Seq#: 446; Xaa Pos. 37
Seq#: 447; Xaa Pos. 31, 37
Seq#: 448; Xaa Pos. 47, 192
Seq#: 449; Xaa Pos. 31
Seq#: 450; Xaa Pos. 44, 46, 77, 78, 10
Seq#: 451; Xaa Pos. 37
Seq#: 452; Xaa Pos. 42
Seq#: 454; Xaa Pos. 25
Seq#: 456; Xaa Pos. 42
Seq#: 457; Xaa Pos. 15, 66
Seq#: 459; Xaa Pos. 31
Seq#: 460; Xaa Pos. 57
Seq#: 461; Xaa Pos. 338, 416
Seq#: 462; Xaa Pos. 56
Seq#: 463; Xaa Pos. 80, 93, 206
Seq#: 464; Xaa Pos. 38
Seq#: 465; Xaa Pos. 136
Seq#: 466; Xaa Pos. 17, 18, 25, 50
Seq#: 467; Xaa Pos. 27, 49, 71
Seq#: 468; Xaa Pos. 59
Seq#: 469; Xaa Pos. 27, 34, 35, 37, 38
Seq#: 470; Xaa Pos. 17, 62
Seq#: 471; Xaa Pos. 103, 302, 305, 31
Seq#: 472; Xaa Pos. 24

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Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:473; Xaa Pos. 10
Seq#:474; Xaa Pos. 36,44,85
Seq#:475; Xaa Pos. 26
Seq#:476; Xaa Pos. 34
Seq#:477; Xaa Pos. 151,172
Seq#:478; Xaa Pos. 8,27,61
Seq#:479; Xaa Pos. 3
Seq#:480; Xaa Pos. 11,35,38,96
Seq#:481; Xaa Pos. 159,171
Seq#:482; Xaa Pos. 111,575
Seq#:483; Xaa Pos. 29,31,43,92
Seq#:484; Xaa Pos. 13,14
Seq#:485; Xaa Pos. 54
Seq#:486; Xaa Pos. 7,11,16,22
Seq#:490; Xaa Pos. 9
Seq#:491; Xaa Pos. 5
Seq#:492; Xaa Pos. 87,95
Seq#:494; Xaa Pos. 37,45
Seq#:504; Xaa Pos. 39,40,112
Seq#:505; Xaa Pos. 65
Seq#:506; Xaa Pos. 39,40
Seq#:508; Xaa Pos. 17
Seq#:514; Xaa Pos. 18
Seq#:520; Xaa Pos. 4
Seq#:521; Xaa Pos. 4
Seq#:545; Xaa Pos. 10,17
Seq#:547; Xaa Pos. 8,34,38
Seq#:548; Xaa Pos. 8,34,38
Seq#:551; Xaa Pos. 16,17,20,24,36,43
Seq#:552; Xaa Pos. 31
Seq#:553; Xaa Pos. 68,124,211
Seq#:554; Xaa Pos. 35
Seq#:558; Xaa Pos. 320,334,337,339,341,345,350,352,355,360
Seq#:563; Xaa Pos. 36
Seq#:573; Xaa Pos. 409
Seq#:579; Xaa Pos. 19
Seq#:587; Xaa Pos. 23,35
Seq#:588; Xaa Pos. 25,40,42,174,186
Seq#:589; Xaa Pos. 44,81,125,142
Seq#:613; Xaa Pos. 35,71
Seq#:615; Xaa Pos. 43,155
Seq#:621; Xaa Pos. 30,31,34,37
Seq#:627; Xaa Pos. 77
Seq#:629; Xaa Pos. 22
Seq#:633; Xaa Pos. 56,57,60,83,84,165
Seq#:635; Xaa Pos. 77
Seq#:637; Xaa Pos. 7
Seq#:639; Xaa Pos. 15
Seq#:644; Xaa Pos. 105,115

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Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#: 647; Xaa Pos. 8,13
Seq#: 652; Xaa Pos. 131,145
Seq#: 659; Xaa Pos. 10
Seq#: 667; Xaa Pos. 105
Seq#: 672; Xaa Pos. 8,145
Seq#: 677; Xaa Pos. 87
Seq#: 688; Xaa Pos. 12
Seq#: 689; Xaa Pos. 61
Seq#: 690; Xaa Pos. 56
Seq#: 699; Xaa Pos. 83
Seq#: 703; Xaa Pos. 27,28,29,30,31,32,33,34,35,36,37,38
Seq#: 711; Xaa Pos. 29
Seq#: 713; Xaa Pos. 76,80,90,98,113
Seq#: 718; N Pos. 24
Seq#: 728; Xaa Pos. 8
Seq#: 729; Xaa Pos. 46,50
Seq#: 730; Xaa Pos. 34,38
Seq#: 733; Xaa Pos. 127
Seq#: 736; Xaa Pos. 48
Seq#: 758; Xaa Pos. 26
Seq#: 762; Xaa Pos. 67,86
Seq#: 767; Xaa Pos. 17
Seq#: 769; Xaa Pos. 46
Seq#: 770; Xaa Pos. 27,38
Seq#: 780; Xaa Pos. 45,46,47
Seq#: 781; Xaa Pos. 34,66,79
Seq#: 784; Xaa Pos. 90
Seq#: 787; Xaa Pos. 43,60
Seq#: 788; Xaa Pos. 41,97,103
Seq#: 790; Xaa Pos. 8
Seq#: 791; Xaa Pos. 7
Seq#: 792; Xaa Pos. 2,24,45,46
Seq#: 793; Xaa Pos. 53
Seq#: 808; Xaa Pos. 48,55
Seq#: 809; Xaa Pos. 5
Seq#: 811; Xaa Pos. 72
Seq#: 812; Xaa Pos. 16,38
Seq#: 815; Xaa Pos. 72,111,127,149
Seq#: 817; Xaa Pos. 12,28,50
Seq#: 878; Xaa Pos. 197
Seq#: 879; Xaa Pos. 178
Seq#: 904; Xaa Pos. 16,27,65
Seq#: 905; Xaa Pos. 7
Seq#: 907; Xaa Pos. 4
Seq#: 938; Xaa Pos. 21
Seq#: 940; Xaa Pos. 124
Seq#: 941; Xaa Pos. 47
Seq#: 944; Xaa Pos. 124,178
Seq#: 945; Xaa Pos. 10

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/03/2002
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Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:958; Xaa Pos. 10
Seq#:959; Xaa Pos. 10
Seq#:965; Xaa Pos. 25,26,90,94,105,120
Seq#:966; Xaa Pos. 25,26
Seq#:968; Xaa Pos. 11,15,26,41
Seq#:971; Xaa Pos. 2,3,4
Seq#:975; Xaa Pos. 37
Seq#:977; Xaa Pos. 14
Seq#:978; Xaa Pos. 29
Seq#:999; Xaa Pos. 19,62
Seq#:1002; Xaa Pos. 19
Seq#:1003; Xaa Pos. 33
Seq#:1007; Xaa Pos. 20,63
Seq#:1008; Xaa Pos. 259,312
Seq#:1010; Xaa Pos. 135
Seq#:1011; Xaa Pos. 65,118
Seq#:1012; Xaa Pos. 15,258
Seq#:1015; Xaa Pos. 42
Seq#:1017; Xaa Pos. 34,46,47,65
Seq#:1036; Xaa Pos. 189
Seq#:1039; Xaa Pos. 63
Seq#:1041; Xaa Pos. 96,97,98,99,100,101,102,103,104,105,106,107,108,109,110
Seq#:1041; Xaa Pos. 111,112,130
Seq#:1043; Xaa Pos. 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,46
Seq#:1056; Xaa Pos. 130
Seq#:1058; Xaa Pos. 42
Seq#:1059; Xaa Pos. 130
Seq#:1060; Xaa Pos. 112
Seq#:1079; Xaa Pos. 152,314,359
Seq#:1081; Xaa Pos. 42
Seq#:1082; Xaa Pos. 75
Seq#:1083; Xaa Pos. 8
Seq#:1084; Xaa Pos. 10
Seq#:1085; Xaa Pos. 64
Seq#:1088; Xaa Pos. 94
Seq#:1092; Xaa Pos. 73
Seq#:1094; Xaa Pos. 83,136
Seq#:1097; Xaa Pos. 11,28,67
Seq#:1103; Xaa Pos. 112,231
Seq#:1108; Xaa Pos. 25
Seq#:1109; Xaa Pos. 53
Seq#:1112; Xaa Pos. 28
Seq#:1115; Xaa Pos. 16,24
Seq#:1116; Xaa Pos. 11,15,35,36,39,40,45,91,255,256,257,258
Seq#:1117; Xaa Pos. 52,164,209,210,211
Seq#:1118; Xaa Pos. 151,197,198,202,203,206,207,227
Seq#:1135; Xaa Pos. 50
Seq#:1136; Xaa Pos. 16
Seq#:1152; Xaa Pos. 21,22

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/03/2002
PATENT APPLICATION: US/10/004,860 TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:1159; Xaa Pos. 103,153
Seq#:1161; Xaa Pos. 22
Seq#:1162; Xaa Pos. 109,159
Seq#:1169; Xaa Pos. 22,34,102
Seq#:1170; Xaa Pos. 22
Seq#:1171; Xaa Pos. 22
Seq#:1172; Xaa Pos. 22
Seq#:1173; Xaa Pos. 22
Seq#:1174; Xaa Pos. 22
Seq#:1180; Xaa Pos. 114,182,194
Seq#:1202; Xaa Pos. 49,50,51,52,53

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/004,860

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Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:2; Xaa Pos. 3
Seq#:12; N Pos. 839
Seq#:14; N Pos. 2,19,87,89,525
Seq#:16; N Pos. 25,478,661
Seq#:17; N Pos. 507
Seq#:18; N Pos. 635
Seq#:19; N Pos. 930
Seq#:21; N Pos. 1470
Seq#:23; N Pos. 301
Seq#:24; N Pos. 834
Seq#:26; N Pos. 1022
Seq#:27; N Pos. 1892,1930,1934
Seq#:28; N Pos. 17
Seq#:29; N Pos. 110,3690,3716
Seq#:30; N Pos. 1628
Seq#:31; N Pos. 1385,1395
Seq#:32; N Pos. 24,666,682,3181,3184
Seq#:33; N Pos. 957,964
Seq#:34; N Pos. 1767,1768
Seq#:35; N Pos. 6,8,870,877
Seq#:37; N Pos. 787
Seq#:39; N Pos. 794,806,810
Seq#:40; N Pos. 69
Seq#:42; N Pos. 196,226,302,596,952
Seq#:43; N Pos. 1801
Seq#:45; N Pos. 976
Seq#:48; N Pos. 593,2049
Seq#:49; N Pos. 35,570
Seq#:50; N Pos. 1486
Seq#:53; N Pos. 17,1514,1551,1556
Seq#:55; N Pos. 751,879,888,897,899,901
Seq#:56; N Pos. 328,336,341,788
Seq#:57; N Pos. 250,1051,1052
Seq#:58; N Pos. 3,6,32,751,770,784
Seq#:59; N Pos. 345,1024,1098,1186
Seq#:60; N Pos. 410,476
Seq#:61; N Pos. 24,39,548,560,562,584
Seq#:62; N Pos. 158,159,202
Seq#:63; N Pos. 2,4,12,738,776
Seq#:64; N Pos. 565,566
Seq#:65; N Pos. 1,13,15
Seq#:66; N Pos. 262,674
Seq#:67; N Pos. 668,745,1015,1088,1110,1113

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/004,860

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Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:71; N Pos. 884
Seq#:72; N Pos. 584
Seq#:74; N Pos. 20,92,886
Seq#:76; N Pos. 12,27,30,35,76
Seq#:81; N Pos. 38,41,1128,1129,1440
Seq#:82; N Pos. 1379
Seq#:86; N Pos. 1020,1024,1032
Seq#:87; N Pos. 805
Seq#:90; N Pos. 12,123,1522,1527
Seq#:92; N Pos. 62,126
Seq#:96; N Pos. 416,471,490,732,835
Seq#:97; N Pos. 332
Seq#:99; N Pos. 24,39,255
Seq#:104; N Pos. 544,774
Seq#:106; N Pos. 724
Seq#:107; N Pos. 1,6
Seq#:109; N Pos. 19,21,47,607,610
Seq#:110; N Pos. 67,2620
Seq#:111; N Pos. 1579,2226
Seq#:112; N Pos. 123,621,640
Seq#:115; N Pos. 79,2297,3679
Seq#:116; N Pos. 51,476,1136
Seq#:119; N Pos. 147,376,395,1101
Seq#:121; N Pos. 2605
Seq#:123; N Pos. 1445,1515,1520,1535
Seq#:124; N Pos. 498,499
Seq#:125; N Pos. 1286
Seq#:126; N Pos. 159,1123,1510
Seq#:127; N Pos. 495
Seq#:128; N Pos. 273,294
Seq#:129; N Pos. 1152
Seq#:130; N Pos. 2,471,472
Seq#:131; N Pos. 132,225,249,577,1933
Seq#:132; N Pos. 657,852,859,962
Seq#:134; N Pos. 349,409
Seq#:137; N Pos. 248,1004,1014
Seq#:138; N Pos. 58,118,237,661
Seq#:140; N Pos. 404
Seq#:141; N Pos. 623,626,638
Seq#:142; N Pos. 901
Seq#:143; N Pos. 268,284
Seq#:144; N Pos. 929
Seq#:145; N Pos. 265,354,1064,1081
Seq#:146; N Pos. 1126,4015
Seq#:147; N Pos. 1053
Seq#:149; N Pos. 604,842,1079,1334
Seq#:150; N Pos. 45
Seq#:151; N Pos. 73,90,128,219,255,272,2354,2364
Seq#:152; N Pos. 105,730,755,757,777

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/004,860

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Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:153; N Pos. 77,437
Seq#:157; N Pos. 312,1212
Seq#:158; N Pos. 44,1066
Seq#:159; N Pos. 334,505,1044,1670,1678,1683,1684
Seq#:160; N Pos. 19,62,1793,1834
Seq#:161; N Pos. 744
Seq#:163; N Pos. 720,730,736,741
Seq#:165; N Pos. 101,1670,2134,2135
Seq#:167; N Pos. 522,752
Seq#:168; N Pos. 161
Seq#:171; N Pos. 1961,1999
Seq#:175; N Pos. 44,1881
Seq#:176; N Pos. 407,408,1331
Seq#:177; N Pos. 446,470,1024
Seq#:179; N Pos. 622
Seq#:181; N Pos. 35,45,135
Seq#:185; N Pos. 1337
Seq#:190; N Pos. 144,145
Seq#:191; N Pos. 561,1414,1422,1427
Seq#:192; N Pos. 13,1324,1643
Seq#:193; N Pos. 112,147
Seq#:194; N Pos. 283,301,349,438
Seq#:197; N Pos. 675,1195
Seq#:199; N Pos. 1310,1736,1737
Seq#:204; N Pos. 31,50,132,751
Seq#:205; N Pos. 264,340
Seq#:208; N Pos. 422,847,856,872
Seq#:210; N Pos. 750
Seq#:211; N Pos. 200
Seq#:212; N Pos. 420,1017,1408,1423
Seq#:214; N Pos. 450,451,454,1485,1492
Seq#:215; N Pos. 7,9,1241,1247
Seq#:216; N Pos. 1281,1704
Seq#:222; N Pos. 241,954,961
Seq#:223; N Pos. 1351
Seq#:224; N Pos. 1,705,706,707
Seq#:226; N Pos. 773
Seq#:227; N Pos. 344
Seq#:228; N Pos. 462,469
Seq#:229; N Pos. 303,392
Seq#:230; N Pos. 1,1921,1927
Seq#:231; N Pos. 1032,1034
Seq#:232; N Pos. 438,741
Seq#:234; N Pos. 775,2080,2083
Seq#:235; N Pos. 2058,2080,2115,2132
Seq#:236; N Pos. 528,552,1133
Seq#:240; N Pos. 651,1064
Seq#:241; N Pos. 830
Seq#:242; N Pos. 2,4,16,1810,1811

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/004,860

DATE: 05/03/2002
TIME: 15:28:44

Input Set : N:\Crf3\RULE60\10004860.raw
Output Set: N:\CRF3\05032002\J004860.raw

Seq#:243; N Pos. 553,2267,2269,2271
Seq#:244; N Pos. 2459,2473,2475,2478
Seq#:245; N Pos. 133,867,1338
Seq#:246; N Pos. 651
Seq#:247; N Pos. 20,35,36,37
Seq#:248; N Pos. 776,907,1288
Seq#:249; Xaa Pos. 31
Seq#:250; Xaa Pos. 36,78,116
Seq#:251; Xaa Pos. 103
Seq#:252; Xaa Pos. 7,13,22
Seq#:253; Xaa Pos. 32,37
Seq#:254; Xaa Pos. 4,12,128
Seq#:255; Xaa Pos. 8,67
Seq#:256; Xaa Pos. 69
Seq#:257; Xaa Pos. 36,37,44
Seq#:258; Xaa Pos. 51
Seq#:259; Xaa Pos. 43
Seq#:260; Xaa Pos. 61
Seq#:261; Xaa Pos. 36
Seq#:262; Xaa Pos. 38
Seq#:263; Xaa Pos. 5,211
Seq#:264; Xaa Pos. 548
Seq#:266; Xaa Pos. 8,40
Seq#:267; Xaa Pos. 99
Seq#:268; Xaa Pos. 131
Seq#:269; Xaa Pos. 14,19,21
Seq#:270; Xaa Pos. 109,118,122,127
Seq#:271; Xaa Pos. 219
Seq#:272; Xaa Pos. 41,48,50
Seq#:273; Xaa Pos. 7,20,122
Seq#:274; Xaa Pos. 53,88
Seq#:275; Xaa Pos. 26
Seq#:276; Xaa Pos. 29
Seq#:277; Xaa Pos. 14,44
Seq#:278; Xaa Pos. 307,363
Seq#:279; Xaa Pos. 128
Seq#:280; Xaa Pos. 54
Seq#:282; Xaa Pos. 26
Seq#:285; Xaa Pos. 6,38,49
Seq#:286; Xaa Pos. 52
Seq#:287; Xaa Pos. 32
Seq#:288; Xaa Pos. 52,57
Seq#:289; Xaa Pos. 22
Seq#:290; Xaa Pos. 51
Seq#:292; Xaa Pos. 44,66
Seq#:293; Xaa Pos. 75,187,229,232,235,236,237,257
Seq#:294; Xaa Pos. 78,80,81,82,103
Seq#:295; Xaa Pos. 33
Seq#:296; Xaa Pos. 10,43

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Seq#:297; Xaa Pos. 21
Seq#:298; Xaa Pos. 70
Seq#:299; Xaa Pos. 75
Seq#:300; Xaa Pos. 33
Seq#:301; Xaa Pos. 17
Seq#:302; Xaa Pos. 17
Seq#:303; Xaa Pos. 9
Seq#:304; Xaa Pos. 12
Seq#:305; Xaa Pos. 35
Seq#:306; Xaa Pos. 15
Seq#:307; Xaa Pos. 44
Seq#:309; Xaa Pos. 34
Seq#:310; Xaa Pos. 137
Seq#:311; Xaa Pos. 14,37,58
Seq#:312; Xaa Pos. 35
Seq#:313; Xaa Pos. 90
Seq#:314; Xaa Pos. 95
Seq#:315; Xaa Pos. 44
Seq#:316; Xaa Pos. 31
Seq#:317; Xaa Pos. 69,113
Seq#:319; Xaa Pos. 35
Seq#:320; Xaa Pos. 35
Seq#:321; Xaa Pos. 82
Seq#:322; Xaa Pos. 47,70,72
Seq#:323; Xaa Pos. 10,34
Seq#:324; Xaa Pos. 111,112,115
Seq#:325; Xaa Pos. 98,99,100
Seq#:326; Xaa Pos. 36,65
Seq#:328; Xaa Pos. 36
Seq#:329; Xaa Pos. 68
Seq#:330; Xaa Pos. 105
Seq#:332; Xaa Pos. 14,39
Seq#:333; Xaa Pos. 58,72
Seq#:334; Xaa Pos. 62
Seq#:335; Xaa Pos. 286
Seq#:336; Xaa Pos. 55
Seq#:338; Xaa Pos. 120
Seq#:339; Xaa Pos. 33
Seq#:341; Xaa Pos. 18
Seq#:342; Xaa Pos. 87
Seq#:343; Xaa Pos. 538
Seq#:344; Xaa Pos. 202
Seq#:347; Xaa Pos. 48
Seq#:348; Xaa Pos. 288,334
Seq#:349; Xaa Pos. 4,193,200
Seq#:350; Xaa Pos. 24
Seq#:351; Xaa Pos. 85,131,143
Seq#:352; Xaa Pos. 95
Seq#:353; Xaa Pos. 38

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Seq#:354; Xaa Pos. 39
Seq#:355; Xaa Pos. 35,71
Seq#:357; Xaa Pos. 50,53,59,60,61,64,65,90
Seq#:358; Xaa Pos. 41
Seq#:359; Xaa Pos. 56
Seq#:360; Xaa Pos. 4,222
Seq#:361; Xaa Pos. 64
Seq#:362; Xaa Pos. 111,124,125,135,144,154
Seq#:363; Xaa Pos. 17
Seq#:364; Xaa Pos. 10
Seq#:365; Xaa Pos. 14
Seq#:366; Xaa Pos. 5,6,7,10,18
Seq#:367; Xaa Pos. 62
Seq#:368; Xaa Pos. 33
Seq#:369; Xaa Pos. 79
Seq#:370; Xaa Pos. 35
Seq#:371; Xaa Pos. 22
Seq#:372; Xaa Pos. 82
Seq#:373; Xaa Pos. 7,42,43
Seq#:374; Xaa Pos. 4,7,20,25,28,31
Seq#:375; Xaa Pos. 32,57
Seq#:376; Xaa Pos. 14
Seq#:378; Xaa Pos. 45
Seq#:379; Xaa Pos. 15
Seq#:380; Xaa Pos. 34
Seq#:381; Xaa Pos. 14,62
Seq#:382; Xaa Pos. 207
Seq#:383; Xaa Pos. 20,23,31
Seq#:384; Xaa Pos. 43
Seq#:385; Xaa Pos. 255
Seq#:386; Xaa Pos. 2,20
Seq#:387; Xaa Pos. 6,64
Seq#:388; Xaa Pos. 40
Seq#:389; Xaa Pos. 35
Seq#:390; Xaa Pos. 11
Seq#:391; Xaa Pos. 64
Seq#:392; Xaa Pos. 19
Seq#:394; Xaa Pos. 17
Seq#:395; Xaa Pos. 84
Seq#:396; Xaa Pos. 19,21
Seq#:397; Xaa Pos. 29
Seq#:398; Xaa Pos. 34
Seq#:399; Xaa Pos. 47
Seq#:400; Xaa Pos. 21,25
Seq#:401; Xaa Pos. 68
Seq#:403; Xaa Pos. 15
Seq#:405; Xaa Pos. 68,72,83,103,110,121,123,126,134,154
Seq#:408; Xaa Pos. 447
Seq#:410; Xaa Pos. 24

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Seq#:411; Xaa Pos. 35
Seq#:413; Xaa Pos. 25
Seq#:414; Xaa Pos. 79
Seq#:415; Xaa Pos. 20,28
Seq#:416; Xaa Pos. 100
Seq#:417; Xaa Pos. 144,263
Seq#:418; Xaa Pos. 33
Seq#:419; Xaa Pos. 53,80
Seq#:420; Xaa Pos. 82,83,95
Seq#:423; Xaa Pos. 29,31
Seq#:424; Xaa Pos. 179
Seq#:429; Xaa Pos. 61,105,117,219
Seq#:430; Xaa Pos. 51
Seq#:431; Xaa Pos. 27,50
Seq#:432; Xaa Pos. 33,39,55,70
Seq#:433; Xaa Pos. 40
Seq#:435; Xaa Pos. 38
Seq#:436; Xaa Pos. 35
Seq#:437; Xaa Pos. 32
Seq#:438; Xaa Pos. 127
Seq#:439; Xaa Pos. 10,69
Seq#:440; Xaa Pos. 92
Seq#:441; Xaa Pos. 264,296,380
Seq#:442; Xaa Pos. 17,21,23,24
Seq#:443; Xaa Pos. 33,47
Seq#:445; Xaa Pos. 144
Seq#:446; Xaa Pos. 37
Seq#:447; Xaa Pos. 31,37
Seq#:448; Xaa Pos. 47,192
Seq#:449; Xaa Pos. 31
Seq#:450; Xaa Pos. 44,46,77,78,101
Seq#:451; Xaa Pos. 37
Seq#:452; Xaa Pos. 42
Seq#:454; Xaa Pos. 25
Seq#:456; Xaa Pos. 42
Seq#:457; Xaa Pos. 15,66
Seq#:459; Xaa Pos. 31
Seq#:460; Xaa Pos. 57
Seq#:461; Xaa Pos. 338,416
Seq#:462; Xaa Pos. 56
Seq#:463; Xaa Pos. 80,93,206
Seq#:464; Xaa Pos. 38
Seq#:465; Xaa Pos. 136
Seq#:466; Xaa Pos. 17,18,25,50
Seq#:467; Xaa Pos. 27,49,71
Seq#:468; Xaa Pos. 59
Seq#:469; Xaa Pos. 27,34,35,37,38,46,59
Seq#:470; Xaa Pos. 17,62
Seq#:471; Xaa Pos. 103,302,305,316

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Output Set: N:\CRF3\05032002\J004860.raw

Seq#:472; Xaa Pos. 24
Seq#:473; Xaa Pos. 10
Seq#:474; Xaa Pos. 36,44,85
Seq#:475; Xaa Pos. 26
Seq#:476; Xaa Pos. 34
Seq#:477; Xaa Pos. 151,172
Seq#:478; Xaa Pos. 8,27,61
Seq#:479; Xaa Pos. 3
Seq#:480; Xaa Pos. 11,35,38,96
Seq#:481; Xaa Pos. 159,171
Seq#:482; Xaa Pos. 111,575
Seq#:483; Xaa Pos. 29,31,43,92
Seq#:484; Xaa Pos. 13,14
Seq#:485; Xaa Pos. 54
Seq#:486; Xaa Pos. 7,11,16,22
Seq#:490; Xaa Pos. 9
Seq#:491; Xaa Pos. 5
Seq#:492; Xaa Pos. 87,95
Seq#:494; Xaa Pos. 37,45
Seq#:504; Xaa Pos. 39,40,112
Seq#:505; Xaa Pos. 65
Seq#:506; Xaa Pos. 39,40
Seq#:508; Xaa Pos. 17
Seq#:514; Xaa Pos. 18
Seq#:520; Xaa Pos. 4
Seq#:521; Xaa Pos. 4
Seq#:545; Xaa Pos. 10,17
Seq#:547; Xaa Pos. 8,34,38
Seq#:548; Xaa Pos. 8,34,38
Seq#:551; Xaa Pos. 16,17,20,24,36,43
Seq#:552; Xaa Pos. 31
Seq#:553; Xaa Pos. 68,124,211
Seq#:554; Xaa Pos. 35
Seq#:558; Xaa Pos. 320,334,337,339,341,345,350,352,355,360
Seq#:563; Xaa Pos. 36
Seq#:573; Xaa Pos. 409
Seq#:579; Xaa Pos. 19
Seq#:587; Xaa Pos. 23,35
Seq#:588; Xaa Pos. 25,40,42,174,186
Seq#:589; Xaa Pos. 44,81,125,142
Seq#:613; Xaa Pos. 35,71
Seq#:615; Xaa Pos. 43,155
Seq#:621; Xaa Pos. 30,31,34,37
Seq#:627; Xaa Pos. 77
Seq#:629; Xaa Pos. 22
Seq#:633; Xaa Pos. 56,57,60,83,84,165
Seq#:635; Xaa Pos. 77
Seq#:637; Xaa Pos. 7
Seq#:639; Xaa Pos. 15

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Seq#:644; Xaa Pos. 105,115
Seq#:647; Xaa Pos. 8,13
Seq#:652; Xaa Pos. 131,145
Seq#:659; Xaa Pos. 10
Seq#:667; Xaa Pos. 105
Seq#:672; Xaa Pos. 8,145
Seq#:677; Xaa Pos. 87
Seq#:688; Xaa Pos. 12
Seq#:689; Xaa Pos. 61
Seq#:690; Xaa Pos. 56
Seq#:699; Xaa Pos. 83
Seq#:703; Xaa Pos. 27,28,29,30,31,32,33,34,35,36,37,38
Seq#:711; Xaa Pos. 29
Seq#:713; Xaa Pos. 76,80,90,98,113
Seq#:718; N Pos. 24
Seq#:728; Xaa Pos. 8
Seq#:729; Xaa Pos. 46,50
Seq#:730; Xaa Pos. 34,38
Seq#:733; Xaa Pos. 127
Seq#:736; Xaa Pos. 48
Seq#:758; Xaa Pos. 26
Seq#:762; Xaa Pos. 67,86
Seq#:767; Xaa Pos. 17
Seq#:769; Xaa Pos. 46
Seq#:770; Xaa Pos. 27,38
Seq#:780; Xaa Pos. 45,46,47
Seq#:781; Xaa Pos. 34,66,79
Seq#:784; Xaa Pos. 90
Seq#:787; Xaa Pos. 43,60
Seq#:788; Xaa Pos. 41,97,103
Seq#:790; Xaa Pos. 8
Seq#:791; Xaa Pos. 7
Seq#:792; Xaa Pos. 2,24,45,46
Seq#:793; Xaa Pos. 53
Seq#:808; Xaa Pos. 48,55
Seq#:809; Xaa Pos. 5
Seq#:811; Xaa Pos. 72
Seq#:812; Xaa Pos. 16,38
Seq#:815; Xaa Pos. 72,111,127,149
Seq#:817; Xaa Pos. 12,28,50
Seq#:878; Xaa Pos. 197
Seq#:879; Xaa Pos. 178
Seq#:904; Xaa Pos. 16,27,65
Seq#:905; Xaa Pos. 7
Seq#:907; Xaa Pos. 4
Seq#:938; Xaa Pos. 21
Seq#:940; Xaa Pos. 124
Seq#:941; Xaa Pos. 47
Seq#:944; Xaa Pos. 124,178

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Seq#:945; Xaa Pos. 10
Seq#:958; Xaa Pos. 10
Seq#:959; Xaa Pos. 10
Seq#:965; Xaa Pos. 25,26,90,94,105,120
Seq#:966; Xaa Pos. 25,26
Seq#:968; Xaa Pos. 11,15,26,41
Seq#:971; Xaa Pos. 2,3,4
Seq#:975; Xaa Pos. 37
Seq#:977; Xaa Pos. 14
Seq#:978; Xaa Pos. 29
Seq#:999; Xaa Pos. 19,62
Seq#:1002; Xaa Pos. 19
Seq#:1003; Xaa Pos. 33
Seq#:1007; Xaa Pos. 20,63
Seq#:1008; Xaa Pos. 259,312
Seq#:1010; Xaa Pos. 135
Seq#:1011; Xaa Pos. 65,118
Seq#:1012; Xaa Pos. 15,258
Seq#:1015; Xaa Pos. 42
Seq#:1017; Xaa Pos. 34,46,47,65
Seq#:1036; Xaa Pos. 189
Seq#:1039; Xaa Pos. 63
Seq#:1041; Xaa Pos. 96,97,98,99,100,101,102,103,104,105,106,107,108,109,110
Seq#:1041; Xaa Pos. 111,112,130
Seq#:1043; Xaa Pos. 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,46
Seq#:1056; Xaa Pos. 130
Seq#:1058; Xaa Pos. 42
Seq#:1059; Xaa Pos. 130
Seq#:1060; Xaa Pos. 112
Seq#:1079; Xaa Pos. 152,314,359
Seq#:1081; Xaa Pos. 42
Seq#:1082; Xaa Pos. 75
Seq#:1083; Xaa Pos. 8
Seq#:1084; Xaa Pos. 10
Seq#:1085; Xaa Pos. 64
Seq#:1088; Xaa Pos. 94
Seq#:1092; Xaa Pos. 73
Seq#:1094; Xaa Pos. 83,136
Seq#:1097; Xaa Pos. 11,28,67
Seq#:1103; Xaa Pos. 112,231
Seq#:1108; Xaa Pos. 25
Seq#:1109; Xaa Pos. 53
Seq#:1112; Xaa Pos. 28
Seq#:1115; Xaa Pos. 16,24
Seq#:1116; Xaa Pos. 11,15,35,36,39,40,45,91,255,256,257,258
Seq#:1117; Xaa Pos. 52,164,209,210,211
Seq#:1118; Xaa Pos. 151,197,198,202,203,206,207,227
Seq#:1135; Xaa Pos. 50
Seq#:1136; Xaa Pos. 16

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Seq#:1152; Xaa Pos. 21,22
Seq#:1159; Xaa Pos. 103,153
Seq#:1161; Xaa Pos. 22
Seq#:1162; Xaa Pos. 109,159
Seq#:1169; Xaa Pos. 22,34,102
Seq#:1170; Xaa Pos. 22
Seq#:1171; Xaa Pos. 22
Seq#:1172; Xaa Pos. 22
Seq#:1173; Xaa Pos. 22
Seq#:1174; Xaa Pos. 22
Seq#:1180; Xaa Pos. 114,182,194
Seq#:1202; Xaa Pos. 49,50,51,52,53

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Input Set : N:\Crf3\RULE60\10004860.raw
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L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:780
L:424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:60
L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:480
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:420
L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:660
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:480
L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:600
L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:900
L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:1440
L:700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:300
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:780
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1020
L:872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:1860
L:873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:1920
L:887 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:60
L:1038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:3660
L:1080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:1620
L:1122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:1380
L:1156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:660
L:1209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:3180
L:1243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:900
L:1244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:960
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:1740
L:1321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:1335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:840
L:1386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:780
L:1456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:780
L:1471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:60
L:1552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:180
L:1554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:300
L:1558 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:540
L:1564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:900
L:1611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:1800
L:1667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:960
L:1766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:540
L:1791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:2040
L:1816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:1825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:540
L:1883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:1440
L:1982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
L:2007 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:1500
L:2082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:720
L:2084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:840

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L:2085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:900
L:2120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:300
L:22064 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=656
L:22082 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=657
L:22100 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=658
L:22244 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=666
L:23299 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:711
L:23459 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=718